



## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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<b>(21) International Application Number:</b> PCT/SE99/01729 <b>(22) International Filing Date:</b> 29 September 1999 (29.09.99) <b>(30) Priority Data:</b> 9803385-5                      2 October 1998 (02.10.98)                      SE <b>(71) Applicant (for all designated States except US):</b> DOXA CER- TEX AKTIEBOLAG [SE/SE]; Persiljegatan 6, S-754 49 Uppsala (SE). <b>(72) Inventors; and</b> <b>(75) Inventors/Applicants (for US only):</b> ADOLFSSON, Erik [SE/SE]; Norrtäljegatan 7A, S-754 27 Uppsala (SE). HERMANSSON, Leif [SE/SE]; Persiljegatan 6, S-754 49 Uppsala (SE). <b>(74) Agents:</b> BJÖRKMAN, Annika et al.; Hynell Patenttjänst AB, Patron Carls väg 2, S-683 40 Hagfors/Uddeholm (SE).		<b>(81) Designated States:</b> AE, AL, AM, AT, AT (Utility model), AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, CZ (Utility model), DE, DE (Utility model), DK, DK (Utility model), DM, EE, EE (Utility model), ES, FI, FI (Utility model), GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK (Utility model), SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).  <b>Published</b> <i>With international search report.</i> <i>Before the expiration of the time limit for amending the</i> <i>claims and to be republished in the event of the receipt of</i> <i>amendments.</i> <i>In English translation (filed in Swedish).</i>
<b>(54) Title:</b> BIOACTIVE COMPOSITE MATERIALS AND METHOD OF PRODUCING THE SAME		
<b>(57) Abstract</b> <p>The present invention relates to a method of producing improved bioactive composite materials based on apatite, mainly for supporting functions in dental and orthopaedic applications, by adapting closure temperature and applying of pressure in closed systems using the production methods, according to reaction tendencies of the materials at their production, and by possibly further counteracting such reaction tendencies and tendencies for decomposition by additions of helping agents.</p>		